

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Withdrawn) A substrate for bioassay in which bioassay based on mutual reaction between probe material and sample material is performed,
the bioassay substrate being constituted so as to have flat plate-shape, and
the bioassay substrate including:
a reaction region adapted so that the sample material and fluorescence marking agent are permitted to be dropped from the upper side, and the probe material is permitted to be immobilized, the reaction region serving as a field of mutual reaction between the probe material and the sample material, and being such that plural wells to which fluorescence with respect to the fluorescence marking agent is irradiated from the lower side are formed, and
an information region where light is irradiated from the lower side to thereby have ability to record and/or reproduce information.
2. (Withdrawn) The bioassay substrate as set forth in claim 1,
the bioassay substrate being comprised of a substrate including an upper layer portion and a lower layer portion formed at the lower side thereof,
the upper layer portion including the reaction region,
the lower layer portion including the information region.

3. (Withdrawn) The bioassay substrate as set forth in claim 2,
wherein the information region is formed at a position spaced from depth of focus
of the light in a thickness direction of the substrate from the reaction region.

4. (Currently Amended) A bioassaying apparatus for performing bioassay based on
a reaction between probe material and sample material,

the bioassaying apparatus comprising:

a substrate holder for holding and rotationally driving a substrate for bioassay,
the substrate including a reaction region and an information region, the reaction region
being formed on an upper layer of the substrate, and the information region being
formed on a lower layer of the substrate, the reaction region being adapted so that the
sample material and fluorescence marking agent are permitted to be dropped from an
upper side of the substrate and the probe material is permitted to be immobilized on the
upper layer, the reaction region serving as a field of mutual reaction between the probe
material and the sample material, the reaction region receiving fluorescence a laser
beam with respect to the fluorescence marking agent from a lower side of the substrate,
and the information region receiving light from [[a]] the lower side of the substrate to
record and/or reproduce information contained in the information region, wherein the
lower layer is spaced from the upper layer in a thickness direction by at least a depth of
focus of the fluorescence laser beam;

a fluorescence detection optical system for irradiating the laser beam
fluorescence having a first wavelength with respect to the reaction region of the

substrate to detect [[the]] fluorescence having the first wavelength produced from the fluorescence marking agent in accordance with the fluorescence laser beam; and
an information recording/reproducing optical system for irradiating the light having a second wavelength with respect to the information region of the substrate.

5. (Currently Amended) The bioassaying apparatus as set forth in claim 4,
wherein the substrate is circular-plate shaped, and the substrate holder rotationally drives the circular-shaped substrate.
6. (Canceled).
7. (Canceled).
8. (Withdrawn) A bioassaying method of performing bioassay based on mutual reaction between probe material and sample material,
the bioassaying method comprising:
holding and rotationally driving a substrate for bioassay, the bioassay substrate including a reaction region adapted so that the sample material and fluorescence marking agent are permitted to be dropped from the upper side, and the probe material is permitted to be immobilized, the reaction region serving as a field of mutual reaction between the probe material and the sample material, and being such that plural wells to which fluorescence with respect to the fluorescence marking agent is irradiated from the

lower side are formed, and an information region where light is irradiated from the lower side to thereby have ability to record and/or reproduce information;

irradiating light having a predetermined wavelength with respect to the information region of the bioassay substrate to perform recording and/or reproducing operations of information on the basis of a reflected light thereof, and irradiating fluorescence having a predetermined wavelength with respect to the reaction region of the bioassay substrate to detect presence or absence of the fluorescence having the predetermined wavelength produced from the fluorescence marking agent in accordance with the fluorescence.